

INTERNATIONAL SEARCH REPORT

 Internat
 Application No
 B 03/05675

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H03H9/17 H03H9/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 1 152 475 A (MITSUBISHI ELECTRIC CORP) 7 November 2001 (2001-11-07) paragraphs '0009!', '0033! figure 2 paragraph '0052! - paragraph '0054! paragraph '0064! - paragraph '0066! paragraph '0075! - paragraph '0077! ----	1-3, 5-8, 10-12 4, 9
X Y	US 5 873 154 A (PARTANEN MEERI TALVILELEI ET AL) 23 February 1999 (1999-02-23) column 2, line 12 - line 37 column 4, line 53 - line 67 ----	1, 2, 10-12 4, 9
Y	US 6 249 074 B1 (LIND THEODORE ET AL) 19 June 2001 (2001-06-19) column 5, line 1 - line 14 ----	4, 9
	---/ -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the International search

15 March 2004

Date of mailing of the International search report

16/04/2004

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Lecoutre, R

INTERNATIONAL SEARCH REPORT

Intern

Application No

P B 03/05675

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>GIBOA H ET AL: "Sequential sputter deposition of titanium nitride and aluminum" VMIC CONFERENCE (IEEE), 12 June 1990 (1990-06-12), pages 338-341, XP010010876 the whole document</p> <p>-----</p>	4,9

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat

Application No

PCT/IB 03/05675

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1152475	A	07-11-2001	JP	2000209063 A	28-07-2000
			EP	1152475 A1	07-11-2001
			US	2001045793 A1	29-11-2001
			CN	1337070 T	20-02-2002
			WO	0135469 A1	17-05-2001
US 5873154	A	23-02-1999	AU	4270197 A	11-05-1998
			EP	1012889 A1	28-06-2000
			WO	9816957 A1	23-04-1998
US 6249074	B1	19-06-2001	CN	1276918 T	13-12-2000
			EP	1029372 A1	23-08-2000
			JP	2001514456 T	11-09-2001
			WO	9910938 A1	04-03-1999